

Series 52

List of Modules 52/XC

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1 Overview

This part of the manual represents a list of the currently available modules and parts for the following DHD system:

Series 52 52/XC

This list of modules and parts is meant to be upgraded from time to time without public notification. Please check version and release date of a document. You can find the most current version of this document on our website:

- [HTML Release, more detailed](#)
- [PDF Release](#) (this document)

2 Terms of Use - Legal Disclaimer

Series 52

List of Modules Series 52

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Version 1.34.0, 06.09.2012

3 About this Book

How to Use this Book

Product Status Information:

-  **PREFERRED PRODUCT** regular production, mostly sufficient stock
-  **PRODUCT WITH POTENTIAL DELIVERY TIMES** production start requires prior order, delivery times depend on module type and vary from a few days to several weeks
-  **ASK FOR QUOTATION** production and prices on enquiry, a minimum order quantity might apply depending on module type, production start requires prior order, delivery times depend on module type and vary from a few days to several weeks, no return possible, documentation might be incomplete or unavailable, module might be not available in the Toolbox configuration software, a prior current quotation is always required
-  **PRODUCT DISCONTINUED** no restaging possible, please ask for potential alternatives

Depending on production batch sizes and spares inventory, there might still be stocks of items with yellow, blue, red status.

Even for preferred products (green), delivery times might arise, if scheduled productions cannot be realised due to delays of parts from our suppliers, or if the estimated amount has been depleted for large orders.

The Navigation Tree

You can find the navigation tree on the left-hand-side of the PDF document. Via the entries of this tree you can directly reach the several chapters and sections of this document. Click onto the text or the  symbol of an entry to display its content.

If a chapter includes further sections, you will find a plus-symbol in front of the entry in the navigation tree. Either you can click onto this plus-sign or you double click the text or the symbol of the entry to make the sub-branches of the further sections visible.

Search

You can find an alphabetical ordered list of keywords at the end of the document. Please see the page numbers in this index to find the respective keywords in the document.

Moreover, you can use the search function of your PDF reader to seek for any words.

Links

Links are underlined to separate them from the rest of the text. These links can be a connection to other chapters or sections in the same document or to an URL (internet address).

- Same document: The hand symbol  appears if you move the mouse over the link.
- URL: The hand symbol with an additional w  appears if you move the mouse over the link.

Please notice, that you need an active internet connection to be able to execute a link to an URL.

The Meaning of Advices in the Text

<p>Warning</p> 	<p>The demands and advices in this fields should be followed unconditional, because otherwise hardware and software products, data bases, as well as persons may suffer a loss.</p>
<p>Important</p> 	<p>The demands and advices in this fields should be followed, because these contents are necessary for the proper operation of the DHD systems.</p>
<p>Note</p> 	<p>Recommendations and further information are marked as notes. Sometimes you will also find off-topic content in this field, which is related to the actual topic.</p>
<p>Tip</p> 	<p>Tips are helpful advices, which should make work with DHD systems easier.</p>
<p>Weblink</p> 	<p>In this fields you can find links to websites, which include for example an other manual or the possibility to download a driver for the respective DHD system.</p> <p>Please notice, that you need an active internet connection to be able to execute a link to an URL.</p>
<p>Download</p> 	<p>You can directly open and download a file if the respective link is marked as download link (file link).</p>

4 52/XC Core

DSP/Controller System

4.1 52-7400C - XC Core DSP/Controller

STATUS : ● **PREFERRED PRODUCT**



52-7400C

DSP & Controller with Micro SD Card

for up to 24 faders, 32 summing busses

- . 12 DHD Audio, Power & Control ports
- . 2 optional DHD Gigabit Audio network

ports, 1 slot for optional MADi module

- . 2 power inputs 48V, 1 RS232
- . 1 wordclock or video sync BNC

weight: 0.6 kg

power consumption: 15.00 W

4.2 52-7402C - XC Core DSP/Controller

STATUS : ● **PREFERRED PRODUCT**



52-7402C

DSP & Controller with Micro SD Card

for up to 20 faders, 24 summing busses

- . 12 DHD Audio, Power & Control ports
- . 2 optional DHD Gigabit Audio network

ports, 1 slot for optional MADi module

- . 2 power inputs 48V, 1 RS232
- . 1 wordclock or video sync BNC

weight: 0.6 kg

power consumption: 15.00 W

4.3 52-7403C - XC Core DSP/Controller

STATUS : ● **PREFERRED PRODUCT**



52-7403C

DSP & Controller with Micro SD Card

for up to 16 faders, 16 summing busses

- . 12 DHD Audio, Power & Control ports
- . 2 optional DHD Gigabit Audio network

ports, 1 slot for optional MADI module

- . 2 power inputs 48V, 1 RS232
- . 1 wordclock or video sync BNC

weight: 0.6 kg

power consumption: 15.00 W

5 I/O Modules

input/output/GPIO modules

5.1 52-7111A - XC Digital I/O Module

STATUS : ● **PREFERRED PRODUCT**



52-7111A

4 AES3/EBU/SPDIF inputs, 24 bit,

input sample rate converters

- . 4 AES3/EBU/SPDIF outputs, 24 bit,

output sample rate converters

- . 4 general purpose inputs, isolated
- . 4 general purpose outputs, isolated

weight: 0.5 kg

power consumption: 3.00 W

5.2 52-7140A - XC DHD IP Audio Interface

STATUS : ● PREFERRED PRODUCT



52-7140A

interfaces IP connected playback and

recording systems to DHDs APC ports

using DHDs WASAPI driver for Windows 7

- . 16 channels playback
- . 16 channels record
- . sample rate converters
- . Fast ethernet for PC connection

weight: 0.5 kg

power consumption: 5.00 W

5.3 52-7170A - XC Quad 3G/HD/SD-SDI De-embedder

STATUS : ● PREFERRED PRODUCT



52-7170A

4 x 3G/HD/SD SDI De-embedders, each:

- Input and loop through BNC connector
- De-embedder for 2 audio groups, 8 ch.
- Sample rate converters, 8 channels
- Selectable audio groups 1/2 or 3/4
- . 4 general purpose inputs, isolated
- . 4 general purpose outputs, isolated

weight: 0.5 kg

power consumption: 5.80 W

5.4 52-7180A - XC Dante IP Audio Interface

STATUS : ● **PREFERRED PRODUCT**



52-7180A

interfaces IP based Dante digital audio

network to DHDs APC ports

- . compatible with Dante-enabled devices or PCs with Dante Virtual Soundcards
- . 48 input channels & 48 output channels
- . sample rate converters
- . Gigabit ethernet for Dante connection

weight: 0.5 kg

power consumption: 5.00 W

5.5 52-7222A - XC Analog I/O Module

STATUS : ● **PREFERRED PRODUCT**



52-7222A

4 analog line inputs, 18dBu max.,

electronically balanced, 24 bit

- . 4 analog line outputs, 18dBu max., electronically balanced, 24 bit

- . 4 general purpose inputs, isolated
- . 4 general purpose outputs, isolated

weight: 0.5 kg

power consumption: 4.20 W

5.6 52-7223A - XC Analog I/O Module, 24dBu

STATUS : ● PREFERRED PRODUCT



52-7223A

4 analog line inputs, 24dBu max.,

electronically balanced, 24 bit

. 4 analog line outputs, 24dBu max.,

electronically balanced, 24 bit

. 4 general purpose inputs, isolated

. 4 general purpose outputs, isolated

weight: 0.5 kg

power consumption: 6.10 W

5.7 52-7230A - XC Mic/Headphone Module

STATUS : ● PREFERRED PRODUCT



52-7230A

4 mic/line inputs with remote preamp

0...63dB, 18dBu max. input level

. phantom power 48V indiv. switchable

. 4 stereo headphone amp outputs

. 4 general purpose inputs, isolated

. 8 general purpose outputs, isolated

. 4 analog control inputs

weight: 0.5 kg

power consumption: 11.60 W

5.8 52-7258A - XC Mic/Line Module, 8 ch., iso.

STATUS : ● **PREFERRED PRODUCT**



52-7258A

8 mic/line inputs with remote preamp

0...65dB, 26dBu max. input level

- . isolated input stages
- . phantom power 48V indiv. switchable
- . 4 general purpose inputs, isolated
- . 4 general purpose outputs, isolated

weight: 0.5 kg

power consumption: 11.70 W

5.9 52-7300A - XC Concentrator

STATUS : ● **PREFERRED PRODUCT**



52-7300A

for I/O and control modules

12 DHD Audio, Power & Control ports

2 DHD Gigabit Audio network ports

includes 2 SFP modules for XC/XD

core connection, multimode LC

- . 1 MADI slot, empty for 52-1821/1825
- . 2 power inputs 48V

weight: 0.6 kg

power consumption: 10.00 W

5.10 52-7301A - XC Concentrator

STATUS : ● PREFERRED PRODUCT



52-7301A

for I/O and control modules

12 DHD Audio, Power & Control ports

1 DHD Gigabit Audio network port

includes 2 SFP modules for

connection to XC/XD core with

LC connector, for multimode cables

. 2 power inputs 48V

weight: 0.5 kg

power consumption: 10.00 W

5.11 52-7391A - XC Gigabit Audio port, multimode

STATUS : ● PREFERRED PRODUCT



52-7391A

allows to receive 512 audio channels

and to transmit 512 audio channels

from/to another XC/XD/XS core

. includes DHD licensed SFP module

with LC connector

for multimode cables

weight: 0.0 kg

power consumption: 1.00 W

5.12 52-7395A - XC Gigabit Audio port, singlemode

STATUS : ● **PRODUCT WITH POTENTIAL DELIVERY TIMES**



52-7395A

allows to receive 512 audio channels

and to transmit 512 audio channels

from/to another XC/XD/XS core

. includes DHD licensed SFP module
with LC connector

for singlemode cables

weight: 0.0 kg

power consumption: 1.00 W

5.13 52-1821A - XC/XS Core MADI, multimode

STATUS : ● **PREFERRED PRODUCT**



52-1821A

56 or 64 input channels and

56 or 64 output channels

AES10 MADI

fiber optical receiver/transmitter

- multimode, 50um or 62.5um, 1300nm

- SC duplex connector

. submodule for XC and XS cores

weight: 0.0 kg

6 Local Power Supply

48V power supplies

6.1 52-7498A - XC Power Supply 48V / 150W

STATUS : ● PREFERRED PRODUCT



52-7498A

150W Output Power

Input Voltage 90-264VAC

Input Frequency 47-63Hz

Mini connector for 48V output

IEC 320-C5 inlet connector

weight: 0.7 kg

6.2 52-7497A - XC Power Supply 48V / 200W

STATUS : ● PREFERRED PRODUCT



52-7497A

IEC AC Mains Inlet

voltage range 90 to 264 VAC, 47-63Hz

suitable for redundant operation

power factor 0.99 typical (PFC)

Note: Power calculation per system is

mandatory!

weight: 1.1 kg

6.3 52-7484A - Power Cable 3m, 4-pin

STATUS : ● **PREFERRED PRODUCT**



52-7484A

for connection of XC/XS Cores or

XC Concentrators to power supplies

- . Power Mini DIN 4 pole cable connector
- . Speakon NL2FC 2 pole cable connector

weight: 0.3 kg

6.4 52-7485A - Power Connector Kit, Speakon

STATUS : ● **PREFERRED PRODUCT**



52-7485A

kit includes

- . 2 pieces Neutrik Speakon NL2FC cable connectors

- . 1 piece Neutrik Speakon NL4MMX coupler

. cable not included, needs to be ordered seperately

weight: 0.1 kg

7 Central Power Supply

48V power supplies

7.1 52-7481A - Central Power Rack 1U

STATUS : ● **PREFERRED PRODUCT**



52-7481A

for up to 5 power supplies 52-7482

no power supply included

needs power distributor 52-7486 and

power monitor & distributor 52-7487

weight: 4.4 kg

power consumption: 5.00 W

7.2 52-7482A - Central Power Supply 1600W

STATUS : ● **PREFERRED PRODUCT**



52-7482A

voltage range 90 to 264 VAC, 47-63Hz

suitable for redundant operation

power factor corrected (PFC)

needs 52-7481 rack

includes permanent cooling fan, for

machine room installations only

weight: 1.4 kg

7.3 52-7484A - Power Cable 3m, 4-pin

STATUS : ● **PREFERRED PRODUCT**



52-7484A

for connection of XC/XS Cores or

XC Concentrators to power supplies

- Power Mini DIN 4 pole cable connector
- Speakon NL2FC 2 pole cable connector

weight: 0.3 kg

7.4 52-7486A - Power Distributor

STATUS : ● **PREFERRED PRODUCT**



52-7486A

for 48V power distribution up to 6

devices

- maximum current 18A
- needs to be connected to central power

supply

weight: 0.3 kg

7.5 52-7487A - Power Monitor & Distributor

STATUS : ● **PREFERRED PRODUCT**



52-7487A

allows remote power supply monitoring

incl. voltage, current & temperature

- . needs connection to APC port
- . needs to be connected to central power

rack 52-7481A

- . includes 48V power distributor for up to 6 devices, max. current 18A

weight: 0.3 kg

power consumption: 5.00 W

7.6 52-7485A - Power Connector Kit, Speakon

STATUS : ● **PREFERRED PRODUCT**



52-7485A

kit includes

- . 2 pieces Neutrik Speakon NL2FC cable connectors
- . 1 piece Neutrik Speakon NL4MMX coupler

. cable not included, needs to be ordered separately

weight: 0.1 kg

8 Accessories

8.1 52-7491A - XC 19" Adapterpanel, XLR

STATUS : ● PREFERRED PRODUCT



52-7491A

for 2 housings 1/2 19" width

additional space for XLR connectors

weight: 0.3 kg

8.2 52-7492A - XC 19" Adapterpanel, flat

STATUS : ● PREFERRED PRODUCT



52-7492A

for 2 housings 1/2 19" width

weight: 0.2 kg

8.3 52-7493A - XC blank panel

STATUS : ● PREFERRED PRODUCT



52-7493A

1/2 19" width

weight: 0.0 kg

8.4 52-7494A - XC table mounting kit

STATUS : ● **PREFERRED PRODUCT**



52-7494A

for mounting of XC/XS modules

includes 4 brackets and screws

weight: 0.0 kg

8.5 52-7495A - XC 19" Adapterpanel, 10 slots

STATUS : ● **PREFERRED PRODUCT**



52-7495A

for mounting of 10 XC/XS modules

6 height units (6U), 266mm

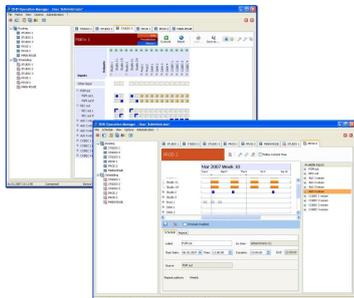
weight: 1.3 kg

9 Series 52 PC Software

Software products for the 52/XC

9.1 52-8550 - Routing/Scheduling Software

STATUS : ● PREFERRED PRODUCT



52-8550

sets crosspoints

for 52/XC/XD/XS/XR, RM420-852/853

matrix and list view, submatrices

scheduler (time triggered routing)

user management

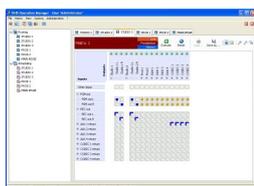
1 hardware related DHDOM license

for Windows XP, Windows 7

weight: 0.0 kg

9.2 52-8551 - Routing Software

STATUS : ● PREFERRED PRODUCT



52-8551

sets crosspoints

for 52/XC/XD/XS/XR, RM420-852/853

matrix and list view, submatrices

user management

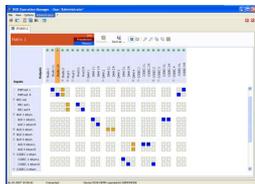
1 hardware related DHDOM license

for Windows XP, Windows 7

weight: 0.0 kg

9.3 52-8552 - Routing Software, single matrix

STATUS : ● PREFERRED PRODUCT



52-8552

sets crosspoints

for 52/XC/XD/XS/XR, RM420-852/853

matrix and list view

supports 1 matrix (no submatrices)

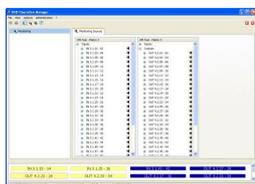
1 hardware related DHDOM license

for Windows XP, Windows 7

weight: 0.0 kg

9.4 52-8555 - Monitoring Software

STATUS : ● PREFERRED PRODUCT



52-8555

sets crosspoints

for 52/XC/XD/XS/XR, RM420-852/853

easy to use button list view

supports one matrix output

license bundle for 20 DHDOM users

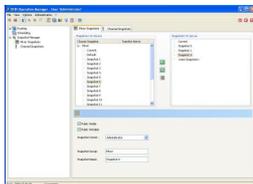
needs license 52-8550, 8551 or 8552

for operation & administration

weight: 0.0 kg

9.5 52-8562 - Snapshot Manager Software

STATUS : ● PREFERRED PRODUCT



52-8562

manages snapshots, backup & naming

for 52/XC/XD/XS/XR, RM420-852/853

user management

1 hardware related DHDOM license

for Windows XP, Windows 7

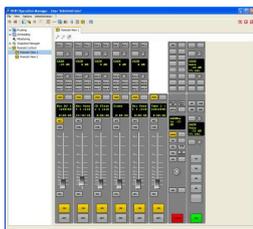
(version without user management

available free of charge)

weight: 0.0 kg

9.6 52-8563 - Remote Control Software

STATUS : ● PREFERRED PRODUCT



52-8563

controls mixer and DSP functions

for 52/XC/XD/XS/XR, RM420-852/853

for applications with or without

mixing console

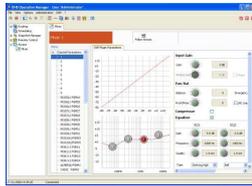
. 1 hardware related DHDOM license

. for Windows XP, Windows 7

weight: 0.0 kg

9.7 52-8565 - DSP Control Software

STATUS : ● PREFERRED PRODUCT



52-8565

controls input processing of

selected channel (ACCESS)

- . for 52/XC/XD/XS/XR, RM420-852/853
- . 1 hardware related DHDOM license
- . for Windows XP, Windows 7

weight: 0.0 kg

10 52/XC Core Feature Upgrade Licences

10.1 52-8581 - Enhanced DSP Processing

STATUS : ● PREFERRED PRODUCT

1 hardware device related license

available functions see core specifications

weight: 0.0 kg

10.2 52-8582 - XC/XS Core Audio Network

STATUS : ● PREFERRED PRODUCT

audio interface between APC ports

of XC Cores or XS Cores

- . hardware related license code
- . number of available functions limited

by core hardware, see core specifications

weight: 0.0 kg

10.3 52-8583 - XC/XS Core Control Networking

STATUS : ● **PREFERRED PRODUCT**

control interface for logic exchange

between DHD series 52 devices

- . hardware related license code
- . number of available functions limited

by core hardware, see core specifications

weight: 0.0 kg

10.4 52-8571 - Pro-Bel Protocol SW-P-02

STATUS : ● **PRODUCT WITH POTENTIAL DELIVERY TIMES**

license for one router frame 52/XR

Pro-Bel protocol version SW-P-02

needs 52-5860A RS232/RS422 Extender

extended routing commands supported

see specifications for supported

routing commands

(SW-P-02 Copyright by Pro-Bel Ltd)

weight: 0.0 kg

10.5 52-8572 - ESAM-II control protocol

STATUS :  **PRODUCT WITH POTENTIAL DELIVERY TIMES**

license for one RM420-852

Please ask DHD for the detailed

protocol implementation!

. see specifications for supported

control commands

. implemented and tested for the

Thomson Grass Valley Kayak

weight: 0.0 kg

10.6 52-8591 - SNMP Support for DHDOS

STATUS :  **PREFERRED PRODUCT**

SNMP support for 1 frame/device

for series 52 devices

1 hardware related license

needs Windows XP or Windows 7 PC

weight: 0.0 kg

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